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NOTICE OF ALLOWANCE AND FEE(S) DUE

25944

7590

09/07/2004

OLIFF & BERRIDGE, PLC P.O. BOX 19928 ALEXANDRIA, VA 22320

EXAMINER LIU, MING HUN			
2675	Ø		
DATE MAILED: 09/07/2004	٥		

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,297	11/23/2001	Masahiko Tsuchiya	111200	2735

TITLE OF INVENTION: POWER SUPPLY CIRCUIT, OPERATIONAL AMPLIFIER CIRCUIT, LIQUID CRYSTAL DEVICE AND ELECTRONIC INSTRUMENT

APPLN. TYPE	SMALL ENTITY	ISSUE FEE	PUBLICATION FEE	TOTAL FEE(S) DUE	DATE DUE
nonprovisional	NO	\$1330	\$300	\$1630	12/07/2004

THE APPLICATION IDENTIFIED ABOVE HAS BEEN EXAMINED AND IS ALLOWED FOR ISSUANCE AS A PATENT. <u>PROSECUTION ON THE MERITS IS CLOSED</u>. THIS NOTICE OF ALLOWANCE IS NOT A GRANT OF PATENT RIGHTS. THIS APPLICATION IS SUBJECT TO WITHDRAWAL FROM ISSUE AT THE INITIATIVE OF THE OFFICE OR UPON PETITION BY THE APPLICANT. SEE 37 CFR 1.313 AND MPEP 1308.

THE ISSUE FEE AND PUBLICATION FEE (IF REQUIRED) MUST BE PAID WITHIN THREE MONTHS FROM THE MAILING DATE OF THIS NOTICE OR THIS APPLICATION SHALL BE REGARDED AS ABANDONED. THIS STATUTORY PERIOD CANNOT BE EXTENDED. SEE 35 U.S.C. 151. THE ISSUE FEE DUE INDICATED ABOVE REFLECTS A CREDIT FOR ANY PREVIOUSLY PAID ISSUE FEE APPLIED IN THIS APPLICATION. THE PTOL-85B (OR AN EQUIVALENT) MUST BE RETURNED WITHIN THIS PERIOD EVEN IF NO FEE IS DUE OR THE APPLICATION WILL BE REGARDED AS ABANDONED.

HOW TO REPLY TO THIS NOTICE:

I. Review the SMALL ENTITY status shown above.

If the SMALL ENTITY is shown as YES, verify your current SMALL ENTITY status:

A. If the status is the same, pay the TOTAL FEE(S) DUE shown above.

B. If the status above is to be removed, check box 5b on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and twice the amount of the ISSUE FEE shown above, or

If the SMALL ENTITY is shown as NO:

A. Pay TOTAL FEE(S) DUE shown above, or

B. If applicant claimed SMALL ENTITY status before, or is now claiming SMALL ENTITY status, check box 5a on Part B - Fee(s) Transmittal and pay the PUBLICATION FEE (if required) and 1/2 the ISSUE FEE shown above.

II. PART B - FEE(S) TRANSMITTAL should be completed and returned to the United States Patent and Trademark Office (USPTO) with your ISSUE FEE and PUBLICATION FEE (if required). Even if the fee(s) have already been paid, Part B - Fee(s) Transmittal should be completed and returned. If you are charging the fee(s) to your deposit account, section "4b" of Part B - Fee(s) Transmittal should be completed and an extra copy of the form should be submitted.

III. All communications regarding this application must give the application number. Please direct all communications prior to issuance to Mail Stop ISSUE FEE unless advised to the contrary.

IMPORTANT REMINDER: Utility patents issuing on applications filed on or after Dec. 12, 1980 may require payment of maintenance fees. It is patentee's responsibility to ensure timely payment of maintenance fees when due.



PART B - FEE(S) TRANSMITTAL



Complete and send this form, together with applicable fee(s), to: Mail

Mail Stop ISSUE FEE Commissioner for Patents P.O. Box 1450 Alexandria, Virginia 22313-1450

or <u>Fax</u> (703) 746-4000

appropriate. All further con	rrespondence including the l below or directed otherwise	Patent, advance on	ders and notificat	ion of maintenance fees	will be mailed to the current s; and/or (b) indicating a sepa	correspondence address as
	CE ADDRESS (Note: Use Block 1 for	any change of address)	-	Fee(s) Transmittal. The papers. Each addition	f mailing can only be used for his certificate cannot be used all paper, such as an assignment	for any other accompanying
	590 09/07/2004			have its own certificat	te of mailing or transmission.	
OLIFF & BERRI	IDGE, PLC			Ce	rtificate of Mailing or Trans	smission
P.O. BOX 19928				I hereby certify that the States Postal Service	his Fee(s) Transmittal is bein with sufficient postage for fir	g deposited with the United st class mail in an envelone
ALEXANDRIA, V	/A 22320			addressed to the Ma	il Stop ISSUE FEE address PTO (703) 746-4000, on the o	above, or being facsimile
					(100) 110 1000, on the	(Depositor's name)
						(Signature)
						(Date)
APPLICATION NO.	FILING DATE	1	FIRST NAMED INV	VENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/990,297	11/23/2001		Masahiko Tsu	chiva	111200	2735
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CFR 1.363).	e address or indication of "Federate address (or Change of 022) attached.	ì	(1) the names or agents OR, a	on the patent front page, l of up to 3 registered pate alternatively, f a single firm (having as	nt attorneys 1	
"Fee Address" indicat PTO/SB/47; Rev 03-02 of Number is required.	tion (or "Fee Address" Indica or more recent) attached. Use	tion form of a Customer	registered attor 2 registered par	mey or agent) and the nametent attorneys or agents. It	nes of up to	
PLEASE NOTE: Unless	RESIDENCE DATA TO B an assignee is identified be a 37 CFR 3.11. Completion of	low, no assignee	lata will appear o	on the patent. If an assign	nee is identified below, the d	locument has been filed for
(A) NAME OF ASSIGN	-			CITY and STATE OR CO	UNTRY)	
Please check the appropriate	e assignee category or category	``	· ·		Corporation or other private gr	·
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_	Publication Fee (No small entity discount permitted) Payment by credit card. Form PTO-2038 is attached. Advance Order - # of Copies			4°4		
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	(from status indicated above	•				
	MALL ENTITY status. See				LL ENTITY status. See 37 C	
he Director of the USPTO NOTE: The Issue Fee and P Interest as shown by the reco	is requested to apply the Issu tublication Fee (if required) words of the United States Pate	e Fee and Publicat vill not be accepted ent and Trademark	ion Fee (if any) or from anyone othe Office.	r to re-apply any previous er than the applicant; a reg	ly paid issue fee to the applicatistered attorney or agent; or the	ation identified above. he assignee or other party in
Authorized Signature				Date	· ·	
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his collection of information	on is required by 37 CFR 1.3	1. The information	is required to ob	tain or retain a benefit by	the public which is to file (and	d by the USPTO to process)

an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.31. The information is required to obtain or retain a content by the public which is to the claim by the OST 10 to process, an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 12 minutes to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, Virginia 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, Virginia 22313-1450.

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25944	7590	09/07/2004		EXAM	INER
OLIFF & BE	,	PLC		LIU, MIN	NG HUN
ALEXANDRI	-	20		ART UNIT	PAPER NUMBER
				2675	
				DATE MAILED: 09/07/200	4

Determination of Patent Term Adjustment under 35 U.S.C. 154 (b)

(application filed on or after May 29, 2000)

The Patent Term Adjustment to date is 399 day(s). If the issue fee is paid on the date that is three months after the mailing date of this notice and the patent issues on the Tuesday before the date that is 28 weeks (six and a half months) after the mailing date of this notice, the Patent Term Adjustment will be 399 day(s):

If a Continued Prosecution Application (CPA) was filed in the above-identified application, the filing date that determines Patent Term Adjustment is the filing date of the most recent CPA.

Applicant will be able to obtain more detailed information by accessing the Patent Application Information Retrieval (PAIR) WEB site (http://pair.uspto.gov).

Any questions regarding the Patent Term Extension or Adjustment determination should be directed to the Office of Patent Legal Administration at (703) 305-1383. Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.



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25944	7590 09/07/2004		EXAM	INER
OLIFF & BER P.O. BOX 1992	•		LIU, MIN	NG HUN
ALEXANDRIA	=		ART UNIT	PAPER NUMBER
			2675	

DATE MAILED: 09/07/2004

Notice of Fee Increase on October 1, 2004

If a reply to a "Notice of Allowance and Fee(s) Due" is filed in the Office on or after October 1, 2004, then the amount due will be higher than that set forth in the "Notice of Allowance and Fee(s) Due" because an increase in fees effective on October 1, 2004 is anticipated. See Revision of Patent Fees for Fiscal Year 2005; Proposed Rule, 69 Fed. Reg. 25861, 25863, 25864 (May 10, 2004).

The current fee schedule is accessible from WEB site (http://www.uspto.gov/main/howtofees.htm).

If the fee paid is the amount shown on the "Notice of Allowance and Fee(s) Due" but not the correct amount in view of the fee increase, a "Notice of Pay Balance of Issue Fee" will be mailed to applicant. In order to avoid processing delays associated with mailing of a "Notice of Pay Balance of Issue Fee," if the response to the Notice of Allowance is to be filed on or after October 1, 2004 (or mailed with a certificate of mailing on or after October 1, 2004), the issue fee paid should be the fee that is required at the time the fee is paid. See Manual of Patent Examining Procedure (MPEP), Section 1306 (Eighth Edition, Rev. 2, May 2004). If the issue fee was previously paid, and the response to the "Notice of Allowance and Fee(s) Due" includes a request to apply a previously-paid issue fee to the issue fee now due, then the difference between the issue fee amount at the time the response is filed and the previously-paid issue fee should be paid. See MPEP Section 1308.01.

Effective October 1, 2004, 37 CFR 1.18 is proposed to be amended by revising paragraphs (a) through (c) to read as set forth below. As stated above, the final fee may be a different amount, and applicant should check the WEB site given above when paying the fee.

Section 1.18 Patent post allowance (including issue) fees.

(a) Issue fee for issuing each original or reissue patent, except a design or plant patent:

Questions relating to issue and publication fee payments should be directed to the Customer Service Center of the Office of Patent Publication at (703) 305-8283.

	Application No.	Applicant(s)				
	09/990,297	TSUCHIYA, MASAHIKO				
Notice of Allowability	Examiner	Art Unit				
	Ming-Hun Liu	2675				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address All claims being allowable, PROSECUTION ON THE MERITS IS (OR REMAINS) CLOSED in this application. If not included herewith (or previously mailed), a Notice of Allowance (PTOL-85) or other appropriate communication will be mailed in due course. THIS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT RIGHTS. This application is subject to withdrawal from issue at the initiative of the Office or upon petition by the applicant. See 37 CFR 1.313 and MPEP 1308.						
1. This communication is responsive to <u>5/26/2004</u> .						
2. The allowed claim(s) is/are <u>1-5, 7-9, 14 and 17</u> .						
3. The drawings filed on are accepted by the Examine	г.					
 4.						
Applicant has THREE MONTHS FROM THE "MAILING DATE" of this communication to file a reply complying with the requirements noted below. Failure to timely comply will result in ABANDONMENT of this application. THIS THREE-MONTH PERIOD IS NOT EXTENDABLE.						
5. A SUBSTITUTE OATH OR DECLARATION must be subm INFORMAL PATENT APPLICATION (PTO-152) which give						
6. CORRECTED DRAWINGS (as "replacement sheets") mus (a) including changes required by the Notice of Draftspers 1) hereto or 2) to Paper No./Mail Date (b) including changes required by the attached Examiner's Paper No./Mail Date Paper No./Mail Date Identifying indicia such as the application number (see 37 CFR 1 each sheet. Replacement sheet(s) should be labeled as such in the paper No./Mail Date in the paper No./Mail	on's Patent Drawing Review (PTC s Amendment / Comment or in the .84(c)) should be written on the draw he header according to 37 CFR 1.121	Office action of vings in the front (not the back) of I(d).				
7. DEPOSIT OF and/or INFORMATION about the deposit of BIOLOGICAL MATERIAL must be submitted. Note the attached Examiner's comment regarding REQUIREMENT FOR THE DEPOSIT OF BIOLOGICAL MATERIAL.						
Attachment(s) 1. Notice of References Cited (PTO-892) 2. Notice of Draftperson's Patent Drawing Review (PTO-948) 3. Information Disclosure Statements (PTO-1449 or PTO/SB/0 Paper No./Mail Date <u>C. 6</u> 4. Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Summar Paper No./Mail D 8), 7. ☒ Examiner's Amend	ate				

Application/Control Number: 09/990,297

Art Unit: 2675

EXAMINER'S AMENDMENT

1. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee.

Authorization for this examiner's amendment was given in a telephone interview with Richard Elias on 8/30/2004.

The application has been amended as follows:

Cancel claims 10, 12, 13, 15, 16, 18, and 19.

2. The following is an examiner's statement of reasons for allowance:

Us Patent 6,426,594 to Ito teaches an invention similar to the one being claimed. However, the Ito reference lacked several specific power generating segments and connections necessary to create range of power supplied by the applicant's invention.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

Election/Restrictions

3. Restriction to one of the following inventions is required under 35 U.S.C. 121:

15 7-7.04 NP Application/Control Number: 09/990,297 Page 3

Art Unit: 2675

I. Claims 1-5, 7-9, 14 and 17, drawn to a power supply circuit, classified in class 345, subclass 210.

II. Claims 10, 12, 13, 15, 16, 18, and 19, drawn to an operational amplifier, classified in class 330, subclass 255.

The inventions are distinct, each from the other because of the following reasons:

- 4. Inventions I and II are related as combination and subcombination. Inventions in this relationship are distinct if it can be shown that (1) the combination as claimed does not require the particulars of the subcombination as claimed for patentability, and (2) that the subcombination has utility by itself or in other combinations (MPEP § 806.05(c)). In the instant case, the combination as claimed does not require the particulars of the subcombination as claimed. The subcombination has separate utility such as a stand-alone operational amplifier.
- 5. Because these inventions are distinct for the reasons given above and have acquired a separate status in the art as shown by their different classification, restriction for examination purposes as indicated is proper.
- 6. During a telephone conversation with Richard Elias on 8/30/2004 an election was made without traverse to prosecute the invention of **Group I**, claims 1-5, 7, 8, 9, 14 and 17. Claims 10, 12, 13, 15, 16, 18, and 19 are withdrawn from further consideration, 37 CFR 1.142(b), as being drawn to a non-elected invention.

Application/Control Number: 09/990,297

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7. This application is in condition for allowance except for the presence of claims 10, 12, 13, 15, 16, 18, and 19 to an invention non-elected without traverse. Accordingly,

claims 10, 12, 13, 15, 16, 18, and 19 been cancelled.

8. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ming-Hun Liu whose telephone number is 703-305-

8488. The examiner can normally be reached on Mon-Fri.

The fax phone number for the organization where this application or proceeding

is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see http://pair-direct.uspto.gov. Should

you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Ming-Hun Liu

DENNIS-DOON CHOW

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